

GILA RIVER BASIN

**09447800 BONITA CREEK NEAR MORENCI, AZ**

**LOCATION**--Lat 32°57'20", long 109°31'50", in SE<sub>1/4</sub>NW<sub>1/4</sub> sec. 36, T.5 S., R.27 E., Graham County, Hydrologic Unit 15040005, on left bank 2 mi upstream from intake of city of Safford water supply, 6.3 mi upstream from mouth, and 12.8 mi southwest of Morenci.

**DRAINAGE AREA.--**302 mi<sup>2</sup>.

**PERIOD OF RECORD**--Aug. 1981 to current year.

**GAGE**--Water-stage recorder. Elevation of gage is 3,500 ft above sea level, from topographic map. Two crest-stage gages 440 ft upstream on right and left banks.

**REMARKS**--No estimated daily discharges. Records fair.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 19,500 ft<sup>3</sup>/s Jan. 18, 1993, gage height, 16.5 ft, from slope-area measurement of peak flow; minimum daily, 0.66 ft<sup>3</sup>/s Aug. 31, 1988.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Dec. 20, 1972, 10,000 ft<sup>3</sup>/s, from slope-area measurement made by city of Safford at site about 2 mi downstream. Flood of June 27, 1981, 1,340 ft<sup>3</sup>/s, from slope-area measurement at present site, gage height, 5.6 ft, from floodmark.

**EXTREMES FOR CURRENT YEAR**--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and (or) maximum (\*):

| Date         | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|--------------|------|--------------------------------|------------------|
| Aug. 18..... | 1545 | *16                            | *5.25            |

Minimum daily discharge, 1.3 ft<sup>3</sup>/s, Oct. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 13.4 | 6.38 | 9.16 | 48.0 | 24.9 | 13.1 | 4.93 | 3.87 | 3.13 | 6.65 | 7.39 | 7.27 |
| MAX  | 176  | 21.7 | 29.6 | 769  | 165  | 53.6 | 10.7 | 6.33 | 5.86 | 44.5 | 14.6 | 28.6 |
| (WY) | 1984 | 1995 | 1983 | 1993 | 1993 | 1995 | 1998 | 1993 | 1995 | 1999 | 2000 | 1996 |
| MIN  | 1.52 | 1.86 | 2.26 | 2.43 | 2.71 | 2.74 | 2.00 | 2.10 | 1.32 | 1.93 | 1.73 | 1.20 |
| (WY) | 1992 | 1992 | 2004 | 2004 | 2004 | 2001 | 1991 | 1991 | 1982 | 2002 | 2003 | 2003 |

## SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

**FOR 2004 WATER YEAR**

WATER YEARS 1982 - 2004

|                          |        |        |       |        |       |             |
|--------------------------|--------|--------|-------|--------|-------|-------------|
| ANNUAL TOTAL             | 1051.7 |        | 930.7 |        |       |             |
| ANNUAL MEAN              |        | 2.88   |       | 2.54   |       | 12.3        |
| HIGHEST ANNUAL MEAN      |        |        |       |        | 83.7  | 1993        |
| LOWEST ANNUAL MEAN       |        |        |       |        | 2.54  | 2004        |
| HIGHEST DAILY MEAN       | 29     | Mar 22 | 7.0   | Aug 18 | 10200 | Jan 19 1993 |
| LOWEST DAILY MEAN        | 0.8    | Sep 24 | 1.3   | Oct 1  | 0.7   | Aug 31 1988 |
| ANNUAL SEVEN-DAY MINIMUM | 0.94   | Sep 19 | 1.4   | Oct 1  | 0.76  | Aug 26 1988 |
| ANNUAL RUNOFF (AC-FT)    | 2090   |        | 1850  |        | 8930  |             |
| ANNUAL RUNOFF (CFSM)     | 0.010  |        | 0.008 |        | 0.041 |             |
| ANNUAL RUNOFF (INCHES)   | 0.13   |        | 0.11  |        | 0.55  |             |
| 10 PERCENT EXCEEDS       | 3.9    |        | 3.8   |        | 8.5   |             |
| 50 PERCENT EXCEEDS       | 2.3    |        | 2.4   |        | 4.4   |             |
| 90 PERCENT EXCEEDS       | 1.5    |        | 1.8   |        | 2.3   |             |